

**Flood Control Project Maintenance
Levee Inspections**

Fall 2011 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD0003	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.			
Reclamation District No. 0003 Grand Island	M *	28.65				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	0.03	0.01	0.07	0.24%		
Trim / Thin Trees	0.33	0.02	0.41	1.43%		
Encroachments	0.06		0.06	0.21%	0.54	2.45
Slope Stability	0.01		0.01	0.04%		
Erosion / Bank Caving	0.01		0.01	0.04%		
<i>Supplemental</i>						
USACE Erosion Survey	0.39	0.01	0.43	1.50%		
<i>LMA Totals:</i>	0.83	0.04	0.99	3.46% *	0.54	2.45

Unit No. 01 Left Bank Steamboat Slough LB	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.			
RD0003	M *	11.03				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	0.01		0.01	0.09%		
Trim / Thin Trees	0.02		0.02	0.18%		
Encroachments	0.02		0.02	0.18%	0.08	0.85
Erosion / Bank Caving	0.01		0.01	0.09%		
<i>Supplemental</i>						
USACE Erosion Survey	0.36	0.01	0.40	3.63%		
<i>Unit Totals:</i>	0.42	0.01	0.46	4.17% *	0.08	0.85

Unit No. 02 Right Bank Sacramento River RB	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.			
RD0003	M *	17.62				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	0.02	0.01	0.06	0.34%		
Trim / Thin Trees	0.31	0.02	0.39	2.21%		
Encroachments	0.04		0.04	0.23%	0.46	1.60
Slope Stability	0.01		0.01	0.06%		
<i>Supplemental</i>						
USACE Erosion Survey	0.03		0.03	0.17%		
<i>Unit Totals:</i>	0.41	0.03	0.53	3.01% *	0.46	1.60

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2011 Levee Inspection Results

Reclamation District No. 0003 Grand Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			M	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2011 Levee Inspection Results

Reclamation District No. 0003 Grand Island

Waterway			Bank	Unit Miles
Unit No. 01 Left Bank Steamboat Slough			Left	11.03
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	3/16/2011 - 3/16/2011		11/9/2011 - 11/9/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Michael Moncrief MBK		Michael Moncrief MBK	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	11/09/2011 11/09/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.12	0.23	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 1997 - Mass failure of berm slope and wave wash erosion. Large trees on top of berm, some failed trees. New area of low rock to on the upstream end. 2000 - Some minor erosion near the downstream end. 2005 - One new small tree has fallen. 2009 - Minimal new erosion. 2010 - Minor new erosion. 2011: No observed change. [2011 Site ID: STM_26-0_L]	38.303035 ° -121.577357 °	38.302544 ° -121.578241 °	4 Y
2	0.22	0.33	Earthen Levee	Encroachments	WS	CO	Landscaping	38.302530 ° -121.577848 °	38.301424 ° -121.579113 °	6 Y
3	0.39	0.39	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.300492 ° -121.579454 °	38.300492 ° -121.579454 °	3
4	0.58	0.58	Earthen Levee	Encroachments	WS	W	Pipe	38.298038 ° -121.580895 °	38.298038 ° -121.580895 °	1
5	0.92	0.97	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 1997 - Erosion of sandy levee on top left bank. Site is downstream of a rock section. Large riparian trees on the bank. 1999 - Upstream half of the reach repaired with rock, except for a 30 ft reach at the upstream end. 2001 - Rock repair on the upstream and downstream ends; no revetment at the trees. 2002 - Rock repair is starting to slide off the geotextile at the upstream end. 2005 - One new small tree has fallen. 2006 - 50 ft pocket at the downstream end and at the upstream end with new rock in between. 2007 - Upstream end has been repaired. 2010 - Some minor new erosion. 2011: Minor new erosion. [2011 Site ID: STM_25-0_L]	38.293386 ° -121.582554 °	38.292675 ° -121.582741 °	10 Y
6	0.94	1.14	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2008 - Area closed sign on bank. Newly fallen trees at both ends and pop outs along the bank. 2010 - Site extended downstream. 2011: New erosion at the toe. More trees popouts. [2011 Site ID: STM_24-8_L]	38.291695 ° -121.582993 °	38.289575 ° -121.583092 °	14 Y
7	0.97	0.97	Earthen Levee	Encroachments	CR	W	Pipe Inspector Comments: Irrigation intake pipe through levee.	38.292662 ° -121.582536 °	38.292662 ° -121.582536 °	30 Y
8	1.01	1.03	Earthen Levee	Vegetation	LS	W	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Vegetation on levee slope.	38.292052 ° -121.582671 °	38.291724 ° -121.582729 °	31 Y
9	1.08	1.09	Earthen Levee	Encroachments	LS	CO	Landscaping	38.291055 ° -121.582765 °	38.290898 ° -121.582777 °	12 Y
10	1.21	1.27	Earthen Levee	Encroachments	LS	CO	Landscaping	38.289210 ° -121.582770 °	38.288390 ° -121.582818 °	13 Y
11	1.28	1.33	Earthen Levee	Trim / Thin Trees	LS	W	Trim trees to at least five feet above ground level.	38.288183 ° -121.582808 °	38.287433 ° -121.582982 °	5 Y

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Left Bank Steamboat Slough				Left	11.03	11/09/2011 11/09/2011	Richard Willoughby	

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
12	1.32	1.32	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Irrigation intake pipe.	38.287518 ° -121.582953 °	38.287518 ° -121.582953 °	32 Y
13	1.40	1.40	Earthen Levee	Encroachments	LS	M	Equipment	38.286623 ° -121.583586 °	38.286614 ° -121.583583 °	33 Y
14	1.60	1.60	Earthen Levee	Encroachments	LS	CO	Landscaping	38.284777 ° -121.586340 °	38.284777 ° -121.586340 °	15 Y
15	1.61	1.61	Earthen Levee	Encroachments	LS	CO	Landscaping	38.284645 ° -121.586534 °	38.284645 ° -121.586534 °	7 Y
16	1.62	1.62	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: USGS equipment and pipe penetration.	38.284604 ° -121.586597 °	38.284604 ° -121.586597 °	34 Y
17	1.64	1.66	Earthen Levee	Encroachments	LS	CO	Landscaping	38.284574 ° -121.586631 °	38.284177 ° -121.587208 °	16 Y
18	1.77	1.77	Earthen Levee	Encroachments	LS	W	Prunings	° °	° °	11 °
19	1.77	1.77	Earthen Levee	Trim / Thin Trees	LS	W	Trim trees to at least five feet above ground level.	38.282771 ° -121.588227 °	38.282771 ° -121.588227 °	8 °
20	1.87	1.87	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Irrigation intake pipe penetration.	38.281442 ° -121.588495 °	38.281442 ° -121.588495 °	35 °
21	2.05	2.05	Supplemental Survey	USACE Erosion Survey	WS	U	Inspector Comments: 2009 - Slumping at the levee toe , cobbles at the downstream end. 2010 - Very steep new vertical slump, short site, but looked bad. 2011: This site is upgraded to CRITICAL. A section of rock has failed. Significant new erosion, bank is vertical almost to the top of the levee. Levee has a road on top that is used by trucks and heavy farm equipment. [2011 Site ID: STM_23-8_L]	38.277261 ° -121.590039 °	38.277595 ° -121.589773 °	21 Y
22	2.07	2.07	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Pump shed on waterside slope.	38.278615 ° -121.588727 °	38.278615 ° -121.588727 °	36 Y
23	2.11	2.11	Earthen Levee	Encroachments	LS	C	Material	38.278070 ° -121.589033 °	38.278070 ° -121.589033 °	974 °
24	2.14	2.14	Earthen Levee	Encroachments	WS	W	Pipe	38.277722 ° -121.589389 °	38.277722 ° -121.589389 °	37 °
25	2.16	2.18	Earthen Levee	Erosion / Bank Caving	WS	C	Schedule repair of erosion site prior to the next inspection. Inspector Comments: This erosion is listed in Field Investigation Report database and was repaired by the district. See Field Investigation Report for more information.	° °	° °	2 °

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing N : Not Inspected, see Inspector Comment C : Corrected
M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough						Left	11.03	11/09/2011 11/09/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
26	2.46	2.46	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Irrigation intake pipe penetration.	38.274123 ° -121.587694 °	38.274123 ° -121.587694 °	40
27	2.83	2.83	Earthen Levee	Encroachments	LS	PO	Landscaping	38.268844 ° -121.588264 °	38.268844 ° -121.588264 °	41
28	2.94	2.94	Earthen Levee	Encroachments	LS	W	Pipe	38.267578 ° -121.587391 °	38.267578 ° -121.587391 °	42
29	3.08	3.08	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: 2 pipe penetrations.	38.265510 ° -121.587167 °	38.265510 ° -121.587167 °	46
30	3.13	3.15	Earthen Levee	Encroachments	LS	CO	Landscaping Inspector Comments: Oleander on landside shoulder.	38.264902 ° -121.587193 °	38.264580 ° -121.587220 °	20 Y
31	3.18	3.18	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps. Inspector Comments: 6 large stumps on slope.	38.264154 ° -121.587242 °	38.264154 ° -121.587242 °	47
32	3.26	3.26	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Pipe crossing	38.263071 ° -121.587549 °	38.263071 ° -121.587549 °	49
33	3.26	3.26	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Pipe crossing	38.262991 ° -121.587599 °	38.262991 ° -121.587599 °	50
34	3.33	3.33	Earthen Levee	Encroachments	LS	CO	Landscaping Inspector Comments: Cactus	38.262289 ° -121.588250 °	38.262289 ° -121.588250 °	51 Y
35	3.52	3.52	Earthen Levee	Encroachments	CR	W	Pipe Inspector Comments: Abandoned pipe through levee.	38.261752 ° -121.591534 °	38.261752 ° -121.591534 °	52 Y
36	3.83	3.83	Earthen Levee	Vegetation	LS	W	Remove the wild growth other than native grasses from the levee slopes.	38.258481 ° -121.593753 °	38.258481 ° -121.593753 °	53
37	3.90	3.90	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.257453 ° -121.593942 °	38.257453 ° -121.593942 °	9
38	4.08	4.08	Earthen Levee	Encroachments	WS	W	Pipe	38.255217 ° -121.595593 °	38.255217 ° -121.595593 °	39
39	4.12	4.12	Earthen Levee	Encroachments	WS	W	Pipe	38.254844 ° -121.596045 °	38.254844 ° -121.596045 °	54
40	4.16	4.16	Earthen Levee	Encroachments	LS	W	Prunings	38.254455 ° -121.596635 °	38.254092 ° -121.597554 °	55
41	4.18	4.18	Earthen Levee	Encroachments	LS	W	Pipe	38.254311 ° -121.596956 °	38.254311 ° -121.596956 °	56
42	4.30	4.49	Earthen Levee	Vegetation	LS	W	Remove the wild growth other than native grasses from the levee slopes.	38.253800 ° -121.599100 °	38.251824 ° -121.600980 °	57 Y
43	4.41	4.41	Earthen Levee	Encroachments	WS	W	Pipe	38.252971 ° -121.600710 °	38.252971 ° -121.600710 °	58

*** Location**

LS : Land Side
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CR : Crown

**** Rating**

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U : Unacceptable W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough				Left	11.03	11/09/2011 11/09/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
44	5.25	5.25	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Pipe crossing	38.240973 ° -121.601374 °	38.240973 ° -121.601374 °	59
45	5.33	5.33	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Century plant on landside slope next to ramp.	38.239886 ° -121.601752 °	38.239886 ° -121.601752 °	61 Y
46	5.37	5.40	Earthen Levee	Encroachments	LS	PO	Landscaping	38.239276 ° -121.601899 °	38.238852 ° -121.602000 °	43
47	5.48	5.50	Earthen Levee	Encroachments	LS	CO	Landscaping	38.237690 ° -121.602231 °	38.236575 ° -121.602155 °	44
48	5.53	5.53	Earthen Levee	Encroachments	LS	CO	Landscaping	38.237000 ° -121.602208 °	38.237000 ° -121.602208 °	45
49	5.67	5.67	Earthen Levee	Encroachments	LS	W	Pipe Inspector Comments: Pipe crossing	38.235049 ° -121.601810 °	38.235049 ° -121.601810 °	62
50	5.70	5.70	Earthen Levee	Encroachments	LS	M	Equipment Inspector Comments: Landplane at toe of levee.	38.234628 ° -121.601726 °	38.234628 ° -121.601726 °	63 Y
51	5.76	5.76	Earthen Levee	Encroachments	LS	PO	Landscaping	38.233767 ° -121.601469 °	38.233767 ° -121.601469 °	64 Y
52	5.98	5.98	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Pipe crossing	38.230616 ° -121.601643 °	38.230616 ° -121.601643 °	65
53	6.26	6.26	Earthen Levee	Encroachments	CR	W	Pipe Inspector Comments: Abandoned pipe	38.226430 ° -121.601432 °	38.226430 ° -121.601432 °	66
54	6.55	6.55	Earthen Levee	Encroachments	CR	W	Pipe Inspector Comments: Abandoned pipe	38.222481 ° -121.600987 °	38.222481 ° -121.600987 °	68
55	6.76	6.76	Earthen Levee	Encroachments	LS	W	Pipe Inspector Comments: Drainage pipe crossing	38.219603 ° -121.601767 °	38.219603 ° -121.601767 °	69 Y
56	6.90	6.90	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Pipe crossing	38.217893 ° -121.603146 °	38.217893 ° -121.603146 °	70
57	7.05	7.05	Earthen Levee	Encroachments	CR	W	Pipe Inspector Comments: Pipe crossing	38.215976 ° -121.604370 °	38.215976 ° -121.604370 °	71
58	7.08	7.10	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Remove century plant on landside shoulder and slope.	38.215490 ° -121.604700 °	38.215355 ° -121.604793 °	23 Y
59	7.22	7.49	Earthen Levee	Vegetation	WS	W	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Vegetation near boat launch obstructs visibility.	38.213785 ° -121.605671 °	38.210179 ° -121.607686 °	72 Y

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Left Bank Steamboat Slough						Left	11.03	11/09/2011 11/09/2011	Richard Willoughby	
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
60	7.49	7.49	Earthen Levee	Vegetation	LS	W	Remove the wild growth other than native grasses from the levee slopes.	38.210178 ° -121.607687 °	38.210178 ° -121.607687 °	73
61	7.68	7.68	Earthen Levee	Encroachments	WS	CO	Landscaping	38.207640 ° -121.609334 °	38.207640 ° -121.609334 °	75 Y
62	7.69	7.69	Earthen Levee	Encroachments	LS	CO	Buildings	38.207666 ° -121.609327 °	38.207666 ° -121.609327 °	74 Y
63	7.73	7.73	Earthen Levee	Encroachments	LS	CO	Landscaping	38.207036 ° -121.609540 °	38.207036 ° -121.609540 °	76
64	7.81	7.83	Earthen Levee	Encroachments	WS	CO	Landscaping	38.205964 ° -121.609576 °	38.205733 ° -121.609608 °	971 Y
65	7.84	8.31	Earthen Levee	Encroachments	LS	CO	Landscaping Inspector Comments: Trees within 10' of levee toe obstruct access and visibility of levee toe.	38.205243 ° -121.609689 °	38.198989 ° -121.611815 °	78 Y
66	7.84	7.84	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Pipe crossing	38.205254 ° -121.609686 °	38.205254 ° -121.609686 °	77
67	7.95	8.00	Earthen Levee	Encroachments	LS	CO	Landscaping	38.203945 ° -121.609932 °	38.203283 ° -121.610025 °	25 Y
68	7.99	7.99	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Pipe crossing	38.203173 ° -121.610047 °	38.203173 ° -121.610047 °	79
69	8.12	8.12	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Pipe crossing	38.201582 ° -121.610448 °	38.201582 ° -121.610448 °	80
70	8.18	8.18	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Pipe crossing	38.200684 ° -121.610858 °	38.200684 ° -121.610858 °	81
71	8.31	8.31	Earthen Levee	Encroachments	LS	W	Pipe	38.198989 ° -121.611816 °	38.198989 ° -121.611816 °	82
72	8.36	8.36	Earthen Levee	Encroachments	WS	W	Pipe	38.198307 ° -121.612240 °	38.198307 ° -121.612240 °	83
73	8.45	8.45	Earthen Levee	Encroachments	LS	PO	Landscaping	38.197194 ° -121.612947 °	38.197194 ° -121.612947 °	17
74	8.72	8.72	Earthen Levee	Encroachments	WS	W	Pipe	38.194531 ° -121.616327 °	38.194531 ° -121.616327 °	84
75	8.75	8.75	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: RD 3 drainage discharge pipes. (3)	38.194295 ° -121.616896 °	38.194295 ° -121.616896 °	85 Y
76	8.85	8.85	Earthen Levee	Encroachments	WS	W	Pipe	38.193706 ° -121.618549 °	38.193706 ° -121.618549 °	86
77	8.95	8.95	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	38.193142 ° -121.620206 °	38.193142 ° -121.620206 °	18

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough					Left	11.03	11/09/2011 11/09/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
78	9.04	9.04	Earthen Levee	Encroachments	WS	W	Pipe	38.192702 ° -121.621754 °	38.192702 ° -121.621754 °	87
79	9.19	9.19	Earthen Levee	Erosion / Bank Caving	WS	M	Schedule repair of erosion site prior to the next inspection. Inspector Comments: Erosion around pipe penetration	38.192301 ° -121.624394 °	38.192301 ° -121.624394 °	89 Y
80	9.19	9.19	Earthen Levee	Encroachments	WS	W	Pipe	38.192306 ° -121.624473 °	38.192306 ° -121.624473 °	88 Y
81	10.19	10.19	Earthen Levee	Encroachments	WS	W	Pipe	38.188725 ° -121.641070 °	38.188725 ° -121.641070 °	90
82	10.20	10.22	Earthen Levee	Trim / Thin Trees	LS	W	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.188613 ° -121.641175 °	38.188388 ° -121.641485 °	27 Y
83	10.53	10.53	Earthen Levee	Encroachments	LS	W	Pipe	38.185029 ° -121.645154 °	38.185029 ° -121.645154 °	91
84	10.87	11.01	Earthen Levee	Trim / Thin Trees	WS	W	Trim trees to at least five feet above ground level.	38.183204 ° -121.650861 °	38.182481 ° -121.653199 °	19
85	10.87	11.01	Earthen Levee	Vegetation	LS	W	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Photo of obstructive vegetation beyond levee mile 10.87	38.183204 ° -121.650861 °	38.182481 ° -121.653199 °	92 Y

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing N : Not Inspected, see Inspector Comment C : Corrected
M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.12
End Levee Mile	0.23
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011_STM_26-0_L_1.jpg



Levee Mile Report Line	1
Start Levee Mile	0.12
End Levee Mile	0.23
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011_STM_26-0_L_2.jpg



Levee Mile Report Line	2
Start Levee Mile	0.22
End Levee Mile	0.33
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Dense landscaping on waterside from LM 0.22 to 0.28

richard_f_20111014_951.jpg

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.22
End Levee Mile	0.33
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking upstream at dense landscaping on waterside slope from LM 0.22 to 0.28

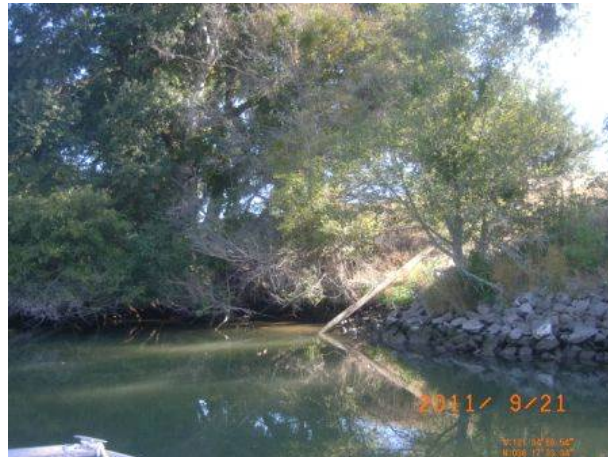
richard_f_20111014_952.jpg



Levee Mile Report Line	5
Start Levee Mile	0.92
End Levee Mile	0.97
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011_STM_25-0_L_1.jpg



Levee Mile Report Line	5
Start Levee Mile	0.92
End Levee Mile	0.97
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011_STM_25-0_L_2.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	0.94
End Levee Mile	1.14
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011_STM_24-8_L_1.jpg



Levee Mile Report Line	6
Start Levee Mile	0.94
End Levee Mile	1.14
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011_STM_24-8_L_2.jpg



Levee Mile Report Line	6
Start Levee Mile	0.94
End Levee Mile	1.14
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

USACE2011_STM_24-8_L_3.jpg

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	0.94
End Levee Mile	1.14
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #4

USACE2011_STM_24-8_L_4.jpg



Levee Mile Report Line	7
Start Levee Mile	0.97
End Levee Mile	0.97
Location	Crown
Category	Earthen Levee
Item	Encroachments

Irrigation intake pipe from Steamboat Slough.

richard_f_20111014_969.jpg



Levee Mile Report Line	8
Start Levee Mile	1.01
End Levee Mile	1.03
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Grass on levee slope and toe exceeds 12" and partially obstructs visibility.

richard_f_20111014_970.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	9
Start Levee Mile	1.08
End Levee Mile	1.09
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Down tree limbs on landside slope from LM 1.08 to 1.09

richard_f_20111014_954.jpg



Levee Mile Report Line	10
Start Levee Mile	1.21
End Levee Mile	1.27
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping on landside slope block view of levee from LM 1.21 to 1.27

richard_f_20111014_955.jpg



Levee Mile Report Line	11
Start Levee Mile	1.28
End Levee Mile	1.33
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking northeast at dense vegetation on waterside slope.

richard_f_20111014_950.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	12
Start Levee Mile	1.32
End Levee Mile	1.32
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Irrigation pipe penetration.

richard_f_20111014_971.jpg



Levee Mile Report Line	13
Start Levee Mile	1.40
End Levee Mile	1.40
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Equipment within 10' of levee toe obstructs access and visibility.

richard_f_20111014_972.jpg



Levee Mile Report Line	14
Start Levee Mile	1.60
End Levee Mile	1.60
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southeast at dense trees on landside shoulder and slope.

richard_f_20111014_956.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	15
Start Levee Mile	1.61
End Levee Mile	1.61
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northeast at dense trees on landside slope.

richard_f_20111014_953.jpg



Levee Mile Report Line	16
Start Levee Mile	1.62
End Levee Mile	1.62
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Photo of pipe penetration and USGS equipment.

richard_f_20111014_973.jpg



Levee Mile Report Line	17
Start Levee Mile	1.64
End Levee Mile	1.66
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southwest at dense landscaping on landside shoulder and slope.

richard_f_20111014_957.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	21
Start Levee Mile	2.05
End Levee Mile	2.05
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011_STM_23-8_L_1.jpg



Levee Mile Report Line	21
Start Levee Mile	2.05
End Levee Mile	2.05
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011_STM_23-8_L_2.jpg



Levee Mile Report Line	21
Start Levee Mile	2.05
End Levee Mile	2.05
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

USACE2011_STM_23-8_L_3.jpg

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing N : Not Inspected, see Inspector Comment C : Corrected
M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	22
Start Levee Mile	2.07
End Levee Mile	2.07
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Pipe penetration and pump shed on waterside slope.

richard_f_20111014_974.jpg



Levee Mile Report Line	30
Start Levee Mile	3.13
End Levee Mile	3.15
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northeast at dense veg. on landside slope.

richard_f_20111014_958.jpg



Levee Mile Report Line	34
Start Levee Mile	3.33
End Levee Mile	3.33
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Large cactus on upper levee slope obstructs access and visibility.

richard_f_20111014_975.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	35
Start Levee Mile	3.52
End Levee Mile	3.52
Location	Crown
Category	Earthen Levee
Item	Encroachments
Abandoned pipe penetration. Pipe has been grouted.	
richard_f_20111014_976.jpg	



Levee Mile Report Line	42
Start Levee Mile	4.30
End Levee Mile	4.49
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Vegetation on levee slopes and toe partially obstruct visibility.	
richard_f_20111014_977.jpg	



Levee Mile Report Line	45
Start Levee Mile	5.33
End Levee Mile	5.33
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking west a century plants on landside slope next to a ramp.	
richard_f_20111014_978.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	50
Start Levee Mile	5.70
End Levee Mile	5.70
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking east at dense vegetation covering farm equipment on landside toe.

richard_f_20111014_979.jpg



Levee Mile Report Line	51
Start Levee Mile	5.76
End Levee Mile	5.76
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping on levee slope and within 10' of levee toe obstruct visibility and access.

richard_f_20111014_980.jpg



Levee Mile Report Line	55
Start Levee Mile	6.76
End Levee Mile	6.76
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Interior drainage discharge pipe penetrates levee.

richard_f_20111014_981.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	58
Start Levee Mile	7.08
End Levee Mile	7.10
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Large Cactus plant on landside shoulder block view of levee slope from LM 7.08 to 7.10

richard_f_20111014_959.jpg



Levee Mile Report Line	58
Start Levee Mile	7.08
End Levee Mile	7.10
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northeast at updated picture (5/2010) century plant on landside shoulder and slope.

richard_f_20111014_960.jpg



Levee Mile Report Line	59
Start Levee Mile	7.22
End Levee Mile	7.49
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Vegetation on levee slope near boat launch is partially obstructive.

richard_f_20111014_982.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	61
Start Levee Mile	7.68
End Levee Mile	7.68
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking southwest at landscaping in front of a house on waterside berm. Also not in the picture a building on landside berm.

richard_f_20111014_984.jpg



Levee Mile Report Line	62
Start Levee Mile	7.69
End Levee Mile	7.69
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Buildings obstruct access and visibility of levee slope and toe.

richard_f_20111014_983.jpg



Levee Mile Report Line	64
Start Levee Mile	7.81
End Levee Mile	7.83
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Front view of dense trees at landside toe.

richard_f_20111014_990.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	64
Start Levee Mile	7.81
End Levee Mile	7.83
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Side view of dense trees at landside toe.

richard_f_20111014_991.jpg



Levee Mile Report Line	65
Start Levee Mile	7.84
End Levee Mile	8.31
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Trees within 10' of levee toe obstruct access and visibility of levee toe.

richard_f_20111014_985.jpg



Levee Mile Report Line	67
Start Levee Mile	7.95
End Levee Mile	8.00
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping (Ivy) on landside slope blocking view of levee from LM 7.95 to 8.00

richard_f_20111014_962.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	75
Start Levee Mile	8.75
End Levee Mile	8.75
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Interior drainage discharge pipes penetrate levee.

richard_f_20111014_986.jpg



Levee Mile Report Line	79
Start Levee Mile	9.19
End Levee Mile	9.19
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Erosion occurring around pipe penetration.

richard_f_20111014_988.jpg



Levee Mile Report Line	80
Start Levee Mile	9.19
End Levee Mile	9.19
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Pipe penetration showing newer pipe next to abandoned pipe.

richard_f_20111014_987.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	82
Start Levee Mile	10.20
End Levee Mile	10.22
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Trees to be trimmed on landside shoulder from LM 10.20 to 10.22

richard_f_20111014_964.jpg



Levee Mile Report Line	82
Start Levee Mile	10.20
End Levee Mile	10.22
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Side view of trees on landside shoulder.

richard_f_20111014_965.jpg



Levee Mile Report Line	82
Start Levee Mile	10.20
End Levee Mile	10.22
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking north at updated picture (5/10) of dense trees on landside slope.

richard_f_20111014_966.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	85
Start Levee Mile	10.87
End Levee Mile	11.01
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at typical view of levee between levee mile 10.87 to 11.01

richard_f_20111116_448.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing N : Not Inspected, see Inspector Comment C : Corrected
M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2011 Levee Inspection Results

Reclamation District No. 0003 Grand Island

Waterway			Bank	Unit Miles
Unit No. 02 Right Bank Sacramento River			Right	17.62
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	3/17/2011 - 3/17/2011		11/9/2011 - 11/9/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Michael Moncrief MBK		Michael Moncrief MBK	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Right Bank Sacramento River						Right	17.62	11/09/2011 11/09/2011	Richard Willoughby	
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.40	Earthen Levee	Vegetation	LS	W	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Vegetation on waterside and landside slope complies with standards.	38.175971 ° -121.653764 °	38.175971 ° -121.647142 °	73 Y
2	0.17	0.17	Earthen Levee	Trim / Thin Trees	WS	W	Trim trees to at least five feet above ground level.	38.174890 ° -121.651031 °	38.174890 ° -121.651031 °	3
3	0.25	0.25	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees over roadway to at least 12 feet above ground level.	38.174504 ° -121.649651 °	38.174504 ° -121.649651 °	4
4	0.31	0.33	Earthen Levee	Vegetation	WS	W	Remove the wild growth other than native grasses from the levee slopes.	38.174281 ° -121.648698 °	38.174209 ° -121.648352 °	5 Y
5	0.40	0.40	Earthen Levee	Slope Stability	WS	M	Repair the levee slope damaged by foot traffic and prevent access where possible.	38.173989 ° -121.647142 °	38.173989 ° -121.647142 °	1 Y
6	1.32	1.32	Earthen Levee	Encroachments	WS	W	Pipe	38.171005 ° -121.631524 °	38.171005 ° -121.631524 °	39
7	1.71	1.71	Earthen Levee	Encroachments	WS	W	Pipe	38.167958 ° -121.625706 °	38.167958 ° -121.625706 °	40
8	1.93	1.98	Earthen Levee	Encroachments	WS	CO	Landscaping	38.166525 ° -121.622201 °	38.166176 ° -121.621332 °	70 Y
9	2.50	2.50	Earthen Levee	Trim / Thin Trees	LS	W	Trim trees to at least five feet above ground level.	38.164369 ° -121.612548 °	38.164369 ° -121.612548 °	6
10	2.78	2.78	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.164676 ° -121.607479 °	38.164676 ° -121.607479 °	951
11	2.91	2.91	Earthen Levee	Encroachments	CR	W	Pipe Inspector Comments: Gas Pipeline	38.165065 ° -121.605275 °	38.165065 ° -121.605275 °	42
12	2.91	2.91	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Pipe crossing	38.165110 ° -121.605143 °	38.165110 ° -121.605143 °	43
13	3.29	3.29	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.167808 ° -121.599557 °	38.167808 ° -121.599557 °	7 Y
14	3.32	3.32	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Obstructive blackberry.	38.168134 ° -121.599028 °	38.168134 ° -121.599028 °	44 Y
15	3.39	3.39	Earthen Levee	Encroachments	WS	M	Pipe Inspector Comments: Pipe penetration.	38.168734 ° -121.598183 °	38.168734 ° -121.598183 °	45 Y
16	3.41	3.41	Earthen Levee	Encroachments	LS	CO	Landscaping Inspector Comments: Iceplant	38.169061 ° -121.597765 °	38.169061 ° -121.597765 °	46
17	3.83	3.92	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.173977 ° -121.593725 °	38.175118 ° -121.592925 °	8

*** Location**

LS : Land Side
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**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway						Bank	Unit Miles	Inspection Start/End		Inspector
Unit No. 02 Right Bank Sacramento River						Right	17.62	11/09/2011 11/09/2011		Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
18	3.87	3.87	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.174430 ° -121.593372 °	38.174430 ° -121.593372 °	952 Y
19	3.87	3.87	Earthen Levee	Encroachments	WS	W	Pipe	38.174478 ° -121.593368 °	38.174478 ° -121.593368 °	47
20	3.90	3.92	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.174817 ° -121.593110 °	38.175077 ° -121.592965 °	953
21	4.22	4.22	Earthen Levee	Encroachments	LS	CO	Landscaping Inspector Comments: Cactus on landside and waterside slope	° °	° °	15 Y
22	4.24	4.24	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.179160 ° -121.590247 °	38.179160 ° -121.590247 °	48
23	4.35	4.35	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.180361 ° -121.589127 °	38.180361 ° -121.589127 °	10
24	4.36	4.42	Earthen Levee	Encroachments	LS	CO	Landscaping	38.180531 ° -121.589103 °	38.181330 ° -121.588480 °	92 Y
25	4.50	4.50	Earthen Levee	Encroachments	LS	W	Pipe	38.182290 ° -121.587641 °	38.182290 ° -121.587641 °	49
26	4.59	4.59	Earthen Levee	Encroachments	LS	W	Pipe	38.183468 ° -121.586634 °	38.183468 ° -121.586634 °	51
27	4.72	4.80	Earthen Levee	Encroachments	LS	CO	Landscaping	38.184832 ° -121.585386 °	38.185737 ° -121.584473 °	13
28	4.98	4.98	Earthen Levee	Encroachments	WS	W	Pipe	38.187660 ° -121.582438 °	38.187660 ° -121.582438 °	52
29	5.05	5.10	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	38.188344 ° -121.581414 °	38.188748 ° -121.580743 °	14
30	5.65	5.68	Earthen Levee	Encroachments	LS	CO	Fences	° °	° °	21
31	5.94	6.00	Earthen Levee	Encroachments	LS	CO	Landscaping	38.193552 ° -121.566933 °	38.193832 ° -121.565995 °	11 Y
32	6.21	6.21	Earthen Levee	Encroachments	LS	PO	Crops Inspector Comments: Orchard on lower levee slope	38.195586 ° -121.562669 °	38.195586 ° -121.562669 °	54
33	6.66	6.69	Earthen Levee	Encroachments	LS	CO	Landscaping	38.201255 ° -121.558977 °	38.201634 ° -121.558886 °	88
34	7.02	7.04	Earthen Levee	Trim / Thin Trees	LS	U	Trim trees to at least five feet above ground level.	38.206363 ° -121.558520 °	38.206598 ° -121.558530 °	12 Y
35	7.16	7.16	Earthen Levee	Vegetation	LS	U	Remove the wild growth other than native grasses from the levee slopes.	38.208205 ° -121.558565 °	38.208205 ° -121.558565 °	16 Y

*** Location**

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**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River							Right	17.62	11/09/2011 11/09/2011	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
36	7.38	7.38	Earthen Levee	Encroachments	LS	CO	Landscaping	38.211357 ° -121.558468 °	38.211357 ° -121.558468 °	55 Y
37	7.86	7.86	Earthen Levee	Encroachments	LS	CO	Landscaping Inspector Comments: photo w 4sale sign	38.218235 ° -121.558481 °	38.218235 ° -121.558481 °	56
38	8.20	8.20	Earthen Levee	Encroachments	LS	M	Prunings	38.223099 ° -121.557537 °	38.223099 ° -121.557537 °	57
39	8.27	8.27	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Tunnel	38.224112 ° -121.557202 °	38.224112 ° -121.557202 °	58 Y
40	8.41	8.41	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level. Inspector Comments: Fallen tree on levee slope.	38.226073 ° -121.557018 °	38.226073 ° -121.557018 °	17
41	8.60	8.60	Earthen Levee	Encroachments	WS	M	Material Inspector Comments: Concrete footings and retaining walls at levee toe and slopes.	38.228793 ° -121.557233 °	38.228793 ° -121.557233 °	59
42	9.14	9.14	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	° °	° °	23
43	9.19	9.19	Earthen Levee	Encroachments	LS	PO	Ramp Inspector Comments: New landowner installed unauthorized ramp on landside slope. District engineer has spoken with landowner about removing the ramp.	38.236877 ° -121.559528 °	38.236877 ° -121.559528 °	2 Y
44	9.20	9.20	Earthen Levee	Encroachments	LS	CO	Landscaping	38.236999 ° -121.559412 °	38.236999 ° -121.559412 °	61
45	9.23	9.31	Earthen Levee	Encroachments	LS	CO	Buildings Inspector Comments: Ryde, CA	38.237346 ° -121.559154 °	38.238329 ° -121.558534 °	62
46	9.47	9.47	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.240337 ° -121.556870 °	38.240337 ° -121.556870 °	63
47	9.53	9.70	Earthen Levee	Encroachments	LS	PO	Landscaping	38.240926 ° -121.556160 °	38.242206 ° -121.553616 °	18
48	9.75	9.85	Earthen Levee	Trim / Thin Trees	LS	W	Trim trees to at least five feet above ground level.	38.242386 ° -121.552699 °	38.242519 ° -121.550864 °	64
49	10.01	10.10	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Ivy on slope.	38.242228 ° -121.548090 °	38.241926 ° -121.546406 °	65
50	10.13	10.13	Earthen Levee	Encroachments	LS	CO	Fences	38.241880 ° -121.546108 °	38.241880 ° -121.546108 °	19 Y
51	10.24	10.29	Earthen Levee	Encroachments	LS	PO	Landscaping	38.241551 ° -121.544035 °	38.241422 ° -121.543236 °	85
52	10.34	10.38	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.241160 ° -121.542377 °	38.241005 ° -121.541618 °	22

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Right Bank Sacramento River						Right	17.62	11/09/2011 11/09/2011	Richard Willoughby	
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
53	10.74	10.74	Earthen Levee	Encroachments	LS	CO	Landscaping	38.239499 ° -121.535338 °	38.239499 ° -121.535338 °	66 Y
54	10.98	10.98	Earthen Levee	Encroachments	LS	CO	Landscaping	38.238812 ° -121.531031 °	38.238812 ° -121.531031 °	67 Y
55	11.02	11.11	Earthen Levee	Encroachments	LS	CO	Landscaping	38.238817 ° -121.530372 °	38.238959 ° -121.528758 °	68
56	11.12	11.35	Earthen Levee	Encroachments	LS	CO	Landscaping	38.238998 ° -121.528585 °	38.239825 ° -121.524558 °	69 Y
57	11.44	11.44	Earthen Levee	Trim / Thin Trees	LS	W	Trim trees to at least five feet above ground level.	° °	° °	26
58	11.52	11.52	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2009 - Hole left in levee toe from a fallen tree. Could be repaired under maintenance. 2010 - Minor new erosion. 2011: No observed change. [2011 Site ID: SAC_26-3_R]	38.239870 ° -121.520989 °	38.239983 ° -121.519361 °	20 Y
59	11.79	11.79	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.241300 ° -121.517073 °	38.241300 ° -121.517073 °	24
60	11.86	11.95	Earthen Levee	Encroachments	LS	CO	Buildings Inspector Comments: Walnut Grove, CA	38.242035 ° -121.516134 °	38.243125 ° -121.515229 °	71
61	12.03	12.07	Earthen Levee	Encroachments	LS	CO	Landscaping	38.243915 ° -121.514254 °	38.244392 ° -121.513740 °	83
62	12.23	12.30	Earthen Levee	Encroachments	LS	CO	Landscaping	38.246310 ° -121.512157 °	38.247332 ° -121.511773 °	31
63	12.33	12.40	Earthen Levee	Encroachments	LS	CO	Landscaping	38.247788 ° -121.511695 °	38.248682 ° -121.511657 °	32
64	12.48	12.55	Earthen Levee	Encroachments	LS	CO	Landscaping	38.249920 ° -121.511845 °	38.250808 ° -121.512152 °	34
65	12.49	12.49	Earthen Levee	Trim / Thin Trees	WS	W	Trim trees to at least five feet above ground level.	38.249937 ° -121.511834 °	38.249937 ° -121.511834 °	25
66	12.60	12.63	Earthen Levee	Encroachments	LS	CO	Landscaping	38.251463 ° -121.512458 °	38.251873 ° -121.512678 °	35
67	12.77	12.85	Earthen Levee	Encroachments	LS	CO	Landscaping	38.253593 ° -121.513883 °	38.254590 ° -121.514862 °	37
68	13.26	13.29	Earthen Levee	Encroachments	LS	CO	Landscaping	38.258703 ° -121.520160 °	38.259003 ° -121.520557 °	82
69	13.60	13.60	Earthen Levee	Encroachments	LS	M	Stairways Inspector Comments: Landowner installed unauthorized stairs on landside slope.	38.262125 ° -121.524405 °	38.262125 ° -121.524405 °	9 Y

*** Location**

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**** Rating**

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N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Right Bank Sacramento River						Right	17.62	11/09/2011 11/09/2011	Richard Willoughby	
LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
70	13.90	13.90	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	°	°	27
								°	°	
71	14.20	14.20	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.267991 ° -121.532340 °	38.267991 ° -121.532340 °	33
72	14.36	14.38	Earthen Levee	Encroachments	LS	CO	Landscaping	38.269642 ° -121.534540 °	38.269882 ° -121.534863 °	50
73	14.93	15.09	Earthen Levee	Encroachments	LS	CO	Landscaping	38.275256 ° -121.542099 °	38.276857 ° -121.543988 °	72
74	15.20	15.27	Earthen Levee	Encroachments	LS	PO	Landscaping	38.278237 ° -121.545405 °	38.278930 ° -121.546218 °	53
75	15.84	15.93	Earthen Levee	Encroachments	LS	CO	Landscaping	38.284124 ° -121.554084 °	38.285129 ° -121.555342 °	79 Y
76	16.45	16.51	Earthen Levee	Encroachments	LS	CO	Landscaping	38.290742 ° -121.561575 °	38.291390 ° -121.562268 °	60
77	16.78	16.80	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 1997 - Erosion of supper sandy levee material above the water line, straight reach. 1999 - Small pocket repaired with rock. 2005 - Downstream 400 ft have been repaired. 2011: Site is overgrown with vegetation. No observed change. [2011 Site ID: SAC_31-6_R]	38.295730 ° -121.566295 °	38.294757 ° -121.565376 °	28 Y
78	16.84	16.90	Earthen Levee	Encroachments	LS	PO	Landscaping	38.295082 ° -121.566037 °	38.295832 ° -121.566756 °	77

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.40
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Photo of obstructive vegetation on levee slopes.

richard_f_20111014_015.jpg



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.40
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking northeast a typical view of levee between levee mile 0.00 to 0.44

richard_f_20111116_452.jpg



Levee Mile Report Line	4
Start Levee Mile	0.31
End Levee Mile	0.33
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking northeast at bamboo on waterside slope.

richard_f_20111014_995.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	0.40
End Levee Mile	0.40
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Slope instability caused by foot traffic on levee slope.

richard_f_20111014_994.jpg



Levee Mile Report Line	8
Start Levee Mile	1.93
End Levee Mile	1.98
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Landscaping on levee slope obstructs visibility and access.

richard_f_20111014_014.jpg



Levee Mile Report Line	13
Start Levee Mile	3.29
End Levee Mile	3.29
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking west at dense vegetation on landside slope and toe.

richard_f_20111014_996.jpg



*** Location**

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W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	14
Start Levee Mile	3.32
End Levee Mile	3.32
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking west at berryvines on landside toe.

richard_f_20111014_007.jpg



Levee Mile Report Line	15
Start Levee Mile	3.39
End Levee Mile	3.39
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Pipe penetration closure valve in open position.

richard_f_20111014_008.jpg



Levee Mile Report Line	18
Start Levee Mile	3.87
End Levee Mile	3.87
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking west at dense bamboo on landside slope.

richard_f_20111014_018.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

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CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	21
Start Levee Mile	4.22
End Levee Mile	4.22
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking west at cactus on landside slope.

richard_f_20111014_002.jpg



Levee Mile Report Line	21
Start Levee Mile	4.22
End Levee Mile	4.22
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southeast a cactus on waterside shoulder and slope.

richard_f_20111014_003.jpg



Levee Mile Report Line	24
Start Levee Mile	4.36
End Levee Mile	4.42
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping on levee slope and toe obstructs access and visibility.

richard_f_20111014_017.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

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CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	31
Start Levee Mile	5.94
End Levee Mile	6.00
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Oleander on landside shoulder blocking view of levee slope from LM 5.94 to 6.00

richard_f_20111014_997.jpg



Levee Mile Report Line	31
Start Levee Mile	5.94
End Levee Mile	6.00
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping on levee slope and toe obstructs access and visibility.

richard_f_20111014_998.jpg



Levee Mile Report Line	34
Start Levee Mile	7.02
End Levee Mile	7.04
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Dense trees at landside toe and shoulder

richard_f_20111014_999.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	34
Start Levee Mile	7.02
End Levee Mile	7.04
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Front view of palm trees on landside shoulder

richard_f_20111014_000.jpg



Levee Mile Report Line	34
Start Levee Mile	7.02
End Levee Mile	7.04
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking southwest at updated dense veg on landside slope.

richard_f_20111014_001.jpg



Levee Mile Report Line	35
Start Levee Mile	7.16
End Levee Mile	7.16
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southwest at dense veg. on landside toe.

richard_f_20111014_004.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	36
Start Levee Mile	7.38
End Levee Mile	7.38
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northwest a dense landscaping on landside shoulder and slope.

richard_f_20111014_009.jpg



Levee Mile Report Line	39
Start Levee Mile	8.27
End Levee Mile	8.27
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Photo of tunnel through levee.

richard_f_20111014_010.jpg



Levee Mile Report Line	43
Start Levee Mile	9.19
End Levee Mile	9.19
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking south at unauthorized ramp on landside slope.

richard_f_20111116_453.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	43
Start Levee Mile	9.19
End Levee Mile	9.19
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southeast at ramp on landside slope.

richard_f_20111116_454.jpg



Levee Mile Report Line	50
Start Levee Mile	10.13
End Levee Mile	10.13
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Block/Concrete fence on landside shoulder at LM 10.13

richard_f_20111014_005.jpg



Levee Mile Report Line	53
Start Levee Mile	10.74
End Levee Mile	10.74
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping on levee slope and toe obstructs access and visibility.

richard_f_20111014_011.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	54
Start Levee Mile	10.98
End Levee Mile	10.98
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping on levee slope obstructs access and visibility.

richard_f_20111014_012.jpg



Levee Mile Report Line	56
Start Levee Mile	11.12
End Levee Mile	11.35
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping trees on levee slope an toe obstruct access and visibility.

richard_f_20111014_013.jpg



Levee Mile Report Line	58
Start Levee Mile	11.52
End Levee Mile	11.52
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011_SAC_26-3_R_1.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	58
Start Levee Mile	11.52
End Levee Mile	11.52
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011_SAC_26-3_R_2.jpg



Levee Mile Report Line	69
Start Levee Mile	13.60
End Levee Mile	13.60
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking west at stairs on landside slope.

richard_f_20111116_455.jpg



Levee Mile Report Line	69
Start Levee Mile	13.60
End Levee Mile	13.60
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northwest at stairs on landside slope.

richard_f_20111116_456.jpg

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	11/09/2011 11/09/2011	Richard Willoughby

Levee Mile Report Line	75
Start Levee Mile	15.84
End Levee Mile	15.93
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping on levee slope and toe obstruct access and visibility.	
richard_f_20111014_016.jpg	



Levee Mile Report Line	77
Start Levee Mile	16.78
End Levee Mile	16.80
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #1	
USACE2011_SAC_31-6_R_1.jpg	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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